

REMARKS

In response to the Final Office Action mailed February 10, 2009 and the Advisory Action mailed May 19, 2009, Applicant respectfully request reconsideration. Claims 1, 3-10 and 12-15 were previously pending in this application. By this amendment, claims 1 and 9 have been amended. Claim 31 has been added. No claims have been canceled. As a result, claims 1, 3-10, 12-15 and 31 are pending for examination, with claims 1, 9 and 31 being independent claims. No new matter has been added.

Rejections Under 35 U.S.C. §103

Claims 1, 3-10 and 12-16 are rejected under 35 U.S.C. 103(a) based on Golden, U.S. Patent No. 6,925,631 (hereinafter Golden) in view of Vosburgh, U.S. Patent No. 7,089,533 (hereinafter Vosburgh) in view of Murthy et al., U.S. Patent No. 7,096,244 (hereinafter Murthy) in further view of Girardot et al., U.S. Patent No. 7,089,567 (hereinafter Girardot). Before discussing the claims, the Girardot reference is briefly discussed.

Summary of Girardot

Girardot describes a method of transmitting and interpreting an XML document (col. 4, lines 41-51). In Girardot, the XML document is represented by a “structure stream” and a “content stream” (col. 5, line 66 – col. 6, line 3). The structure stream is a series of tokens (single bytes) that represent the structure of the XML tags, the attributes related to the tags, and the values of the attributes (col. 4, lines 49-51; col. 4, line 62 – col. 5, line 27). Each token has an interpretation known to a parser (col. 7, lines 26-36; see Table 1). Global tokens are defined by the WBXML Encoding Specification (col. 6, lines 25-30). The parser uses a parser state machine to aid in processing the structure stream (col. 7, lines 37-39; col. 10, lines 4-10). The state machine has two states (tag and attribute) and begins processing in the tag state (col. 7, lines 52-53; FIG. 1a). When a tag token in the structure stream indicates it has an associated attribute, the state machine transitions to the attribute state where the attributes and their associated values are extracted (col. 7, lines 55-60). Specifically, if bit 7 of a token is set to 1 while the state machine is in the tag state, it indicates the tag has an associated attribute thus triggering a transition to the attribute state (col. 7,

lines 40-41). In the attribute state, the next token identifies the attribute (col. 7, lines 28-36). The subsequent token identifies the attribute value (Id.). If the attribute value does not have a specific token associated with it, the structure stream has a token indicating the attribute value can be read from the content stream (col. 8, lines 45-48). Once the attributes associated with a tag in a content stream have been processed in the attribute state, the structure stream uses an END token to return the state machine to the tag state (col. 7, lines 60-62). Processing of the structure stream continues in this way.

Girardot describes another state machine with three states (col. 8, line 56 – col. 9, line 2; FIG. 1b). Here the attribute state is split into an attribute start state and an attribute value state (Id.). This essentially extends the coding space since each token may be interpreted differently depending on the state of the state machine (col. 9, lines 18-20). Thus the same byte may have three different interpretations: one interpretation in the tag state, one in the attribute state, and one in the attribute value state.

Independent Claim 1

As amended, claim 1 recites, *inter alia*:

creating a parser to pre-parse XML source data, the parser
including a parsing agent, the parsing agent automatically
generating a parsing state machine ***based on the XML element
names defined in the parsing map*** (emphasis added)

This amendment is supported in the specification, for example, on page 8, lines 8-10.

This claim as amended distinguishes over the cited references. The Office Action admits that Golden fails to disclose a parsing state machine and cites Girardot as disclosing automatically generating a parsing state machine. As discussed above, Girardot describes using a parsing state machine to process a structure stream of an XML document. Girardot's state machine is generic and fixed, taking one of the two forms as depicted in FIGs. 1a and 1b. Specifically, Girardot's state machine assumes the structure stream is confined to tags, attributes, and attribute values. Though some tokens may be defined by the user, the tokens are all defined within the context of one of these states. The transitions between states are standardized by the WBXML Encoding Specification (e.g., END token). Thus, regardless of the way tokens are chosen to represent tags, attributes and

attribute values, Girardot's state machine is still defined by the same unchanged states and transitions. Girardot simply does not disclose or suggest "automatically generating a parsing state machine," let alone doing so, "***based on the XML element names defined in the parsing map.***"

Accordingly, claim 1 patentably distinguishes over the prior art of record, such that the rejection of claim 1 under 35 U.S.C. §103 should be withdrawn.

Claims 3-8 depend from claim 1, incorporate all of its limitations, and should be allowed for at least the same reasons. Though Applicant does not necessarily concur with the rejections, Applicant believes it is unnecessary to separately address the rejections of the dependent claims. However, the dependent claims also add limitations that further distinguish over the references, and Applicant reserves the right to argue further for the patentability of these claims.

Independent Claim 9

As amended, claim 9 recites, *inter alia*:

a parsing agent, the parsing agent ***automatically generating a parsing state machine based on the plurality of parsing maps...***
(emphasis added)

This amendment is supported in the specification, for example, on page 7, line 29 – page 8, line 10.

It should be clear from the discussion of the references in connection with claim 1 that the prior art of record fails to satisfy at least one limitation of claim 9.

Accordingly, claim 9 patentably distinguishes over the prior art of record, such that the rejection of claim 9 under 35 U.S.C. §103 should be withdrawn.

Claims 10 and 12-15 depend from claim 9, incorporate all of its limitations, and should be allowed for at least the same reasons. Though Applicant does not necessarily concur with the rejections, Applicant believes it is unnecessary to separately address the rejections of the dependent claims. However, the dependent claims also add limitations that further distinguish over the references, and Applicant reserves the right to argue further for the patentability of these claims.

New Claim 31

Claim 31 is added to further define Applicant's contribution to the art. Claim 31 includes a limitation directed to automatically generating, with the parsing agent, a parsing state machine

based on the parsing map exposed to the parser. It should be clear from the discussion of the references in connection with claim 1 that the prior art of record fails to satisfy this limitation. Accordingly, claim 31 patentably distinguishes over the cited references.

General Comments on Dependent Claims

Since each of the dependent claims depends from a base claim that is believed to be in condition for allowance, Applicant believes that it is unnecessary at this time to argue the allowability of each of the dependent claims individually. Applicant does not, however, necessarily concur with the interpretation of the dependent claims as set forth in the Office Action, nor does Applicant concur that the basis for the rejection of any of the dependent claims is proper. Therefore, Applicant reserves the right to specifically address the patentability of the dependent claims in the future, if deemed necessary.

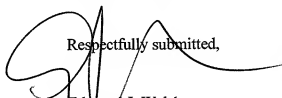
CONCLUSION

A Notice of Allowance is respectfully requested. The Examiner is requested to call the undersigned at the telephone number listed below if this communication does not place the case in condition for allowance to discuss any outstanding issues relating to the allowability of this application.

If the response is not considered timely filed and if a request for an extension of time is otherwise absent, Applicants hereby request any necessary extension of time. Applicants believe no fee is due with this response. However, if a fee is due, please charge Deposit Account No. 23/2825 under Docket No. M1103.70546US00 from which the undersigned is authorized to draw.

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Respectfully submitted,



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